IN THE CLAIMS

Claims 1, 11, and 16 have been amended as follows.

This listing of the claims replaces all prior versions of the claims in the application.

- 1. (Currently Amended) An isolated polypeptide selected from the group consisting of:
- a) polypeptide comprising an amino acid sequence of SEQ ID NO:11,
- b) a polypeptide comprising a naturally occurring amino acid sequence having at least 90% sequence identity to an amino acid sequence of SEQ ID NO:11, said polypeptide stimulating DnaK ATPase activity, and
- c) a biologically active fragment of a polypeptide comprising an amino acid sequence of SEQ ID NO:11, said fragment stimulating DnaK ATPase activity.
- 2. (Previously Presented) An isolated polypeptide of claim 1 comprising SEQ ID NO:11.
- 3. (Original) An isolated polynucleotide encoding a polypeptide of claim 1.
- 4. (Canceled)
- 5. (Previously Presented) An isolated polynucleotide of claim 3 comprising SEQ ID NO:22.
- 6. (Original) A recombinant polynucleotide comprising a promoter sequence operably linked to a polynucleotide of claim 3.
 - 7. (Original) A cell transformed with a recombinant polynucleotide of claim 6.
 - 8. (Canceled)
 - 9. (Original) A method for producing a polypeptide of claim 1, the method comprising:

- a) culturing a cell under conditions suitable for expression of the polypeptide, wherein said cell is transformed with a recombinant polynucleotide, and said recombinant polynucleotide comprises a promoter sequence operably linked to a polynucleotide encoding the polypeptide of claim 1, and
- b) recovering the polypeptide so expressed.
- 10. (Withdrawn) An isolated antibody which specifically binds to a polypeptide of claim 1.
- 11. (Currently Amended) An isolated polynucleotide selected from the group consisting of:
 - a) a polynucleotide comprising a polynucleotide sequence of SEQ ID NO:22,
 - b) a polynucleotide comprising a naturally occurring polynucleotide sequence having at least 70% sequence identity to a polynucleotide of SEQ ID NO:22, <u>said</u> polynucleotide encoding a polypeptide that stimulates <u>Dnak ATPase activity</u>,
 - c) a polynucleotide complementary to a),
 - d) a polynucleotide complementary to b), and
 - e) an RNA equivalent of a)-d).

12. (Canceled)

- 13. (Original) A method for detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 11, the method comprising:
 - a) hybridizing the sample with a probe comprising at least 20 contiguous nucleotides comprising a sequence complementary to said target polynucleotide in the sample, and which probe specifically hybridizes to said target polynucleotide, under conditions whereby a hybridization complex is formed between said probe and said target polynucleotide or fragments thereof, and
 - b) detecting the presence or absence of said hybridization complex, and, optionally, if present, the amount thereof.

14. (Canceled)

15. (Original) A method for detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 11, the method comprising:

- a) amplifying said target polynucleotide or fragment thereof using polymerase chain reaction amplification, and
- b) detecting the presence or absence of said amplified target polynucleotide or fragment thereof, and, optionally, if present, the amount thereof.
- 16. (Currently Amended) A composition comprising an effective amount of a polypeptide of claim 1 and a pharmaceutically acceptable excipient.
- 17. (Previously Presented) A composition of claim 16, wherein the polypeptide comprises an amino acid sequence of SEQ ID NO:11.

18-24. (Canceled)

- 25. (Withdrawn) A method of screening for a compound that specifically binds to the polypeptide of claim 1, said method comprising the steps of:
 - a) combining the polypeptide of claim 1 with at least one test compound under suitable conditions, and
 - b) detecting binding of the polypeptide of claim 1 to the test compound, thereby identifying a compound that specifically binds to the polypeptide of claim 1.
- 26. (Withdrawn) A method of screening for a compound that modulates the activity of the polypeptide of claim 1, said method comprising:
 - a) combining the polypeptide of claim 1 with at least one test compound under conditions permissive for the activity of the polypeptide of claim 1,
 - b) assessing the activity of the polypeptide of claim 1 in the presence of the test compound, and

c) comparing the activity of the polypeptide of claim 1 in the presence of the test compound with the activity of the polypeptide of claim 1 in the absence of the test compound, wherein a change in the activity of the polypeptide of claim 1 in the presence of the test compound is indicative of a compound that modulates the activity of the polypeptide of claim 1.

27. (Canceled)

- 28. (Withdrawn) A method for assessing toxicity of a test compound, said method comprising:
 - a) treating a biological sample containing nucleic acids with the test compound;
 - b) hybridizing the nucleic acids of the treated biological sample with a probe comprising at least 20 contiguous nucleotides of a polynucleotide of claim 11 under conditions whereby a specific hybridization complex is formed between said probe and a target polynucleotide in the biological sample, said target polynucleotide comprising a polynucleotide sequence of a polynucleotide of claim 11 or fragment thereof;
 - c) quantifying the amount of hybridization complex; and
 - d) comparing the amount of hybridization complex in the treated biological sample with the amount of hybridization complex in an untreated biological sample, wherein a difference in the amount of hybridization complex in the treated biological sample is indicative of toxicity of the test compound.
- 29. (Withdrawn) A microarray wherein at least one element of the microarray is a polynucleotide of claim 3.
- 30. (Withdrawn) A method of generating an expression profile of a sample which contains polynucleotides, the method comprising:
 - a) labeling the polynucleotides of the sample,

b) contacting the elements of the microarray of claim 29 with the labeled polynucleotides of the sample under conditions suitable for the formation of a hybridization complex, and

- c) quantifying the expression of the polynucleotides in the sample.
- 31. (Previously Presented) An isolated polynucleotide consisting of at least 60 contiguous nucleotides of a polynucleotide of claim 11.
- 32. (Withdrawn) A method of screening a compound for effectiveness in altering expression of a target polynucleotide, wherein said target polynucleotide comprises a sequence of claim 3, the method comprising:
 - a) exposing a sample comprising the target polynucleotide to a compound, under conditions suitable for the expression of the target polynucleotide,
 - b) detecting altered expression of the target polynucleotide, and
 - c) comparing the expression of the target polynucleotide in the presence of varying amounts of the compound and in the absence of the compound.